

App. Serial No. 09/901,121
Atty. Docket No.: 2313-115

39. (Presently amended) The method of claim 38 wherein said analysis step is performed on a solid phase, ~~said solid phase being~~ selected from the group consisting of a tissue section, a tissue sample in a microarray, a sample bound to a chip, and a sample bound to a membrane.

Cancel claim 40.

45. (Presently amended) The method of claim 38 wherein said method is performed on a solid phase, ~~membrane, microarray or DNA chip and wherein one or more ultrasound transducers are used and uses one or more ultrasound transducers~~ to produce an ultrasound field that allows at least a portion of said solid phase to receive a uniform frequency and intensity of ultrasound.

48. The method of claim 38 45 wherein said method is performed on a sample solid phase comprises a tissue section or a sample bound to a membrane.

53. The method of claim 48 38 wherein a range of ultrasound frequencies is applied to said sample.

54. The method of claim 48 45 wherein said method is performed on a solid phase, ~~membrane, microarray or DNA chip and wherein~~ a plurality of transducers are arranged around said solid phase, ~~membrane, microarray or DNA chip~~ in a two-dimensional arrangement.

55. The method of claim 48 45 wherein said method is performed on a solid phase, ~~membrane, microarray or DNA chip and wherein~~ a plurality of transducers are arranged around said solid phase, ~~membrane, microarray or DNA chip~~ in a three dimensional arrangement.

56. The method of claim 48 45 wherein said method is performed on a solid phase, ~~membrane, microarray or DNA chip and wherein~~ said solid phase, ~~membrane, microarray or DNA chip~~ is rotated.

57. The method of claim 48 45 wherein said method is performed on a solid phase, ~~membrane, microarray or DNA chip and wherein~~ said transducer revolves around said solid phase, ~~membrane, microarray or DNA chip~~.